

### **ABSTRACT OF THE DISCLOSURE**

An amplifier circuit having a high time constant. An operational amplifier includes a non-converting input terminal coupled to a ground, a converting input terminal and an output terminal. A first resistor network including at least one stage is coupled between the converting input terminal and the output terminal. Each stage of the first resistor network includes a first node, a first current path and a second current path connected to the first node. The first current path of each stage of the first resistor network is connected to the first node of the next stage, the second current path of each stage of the first resistor network is grounded, and the first current path of the first stage of the first resistor network is connected to the converting input terminal. A loading unit is coupled between the converting input terminal and the output terminal.